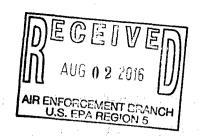


July 27, 2016

Illinois Environmental Protection Agency Bureau of Air Compliance Section (MC40) Post Office Box 19276 Springfield, Illinois 62794-9276



Subject:

Semi-Annual Monitoring System Performance Report for Sterigenics -

Willowbrook, IL Facilities - Permit ID #043110AAC/Summary Report-Gaseous and

Opacity Excess Emission and Continuous Monitoring System Performance

Dear Compliance Section:

This letter constitutes the semi-annual monitoring and summary report for Sterigenics Willowbrook, Illinois facilities. This report is intended to satisfy semi-annual reporting requirements in our current air permit. This report is organized by reporting requirements required by 40 CFR 63.366 (a)(3) and permit condition.

Summary Report for Sterigenics' facilities located at 7775 Quincy Street, Willowbrook, IL and 830 Midway Drive, Willowbrook, IL. These two facilities are combined in Permit #043110AAC.

Reporting Period Dates:

01 January 2016 to 30 June 2016

Description of Process Units:

The facility process units are sterilization process chambers of various size using ethylene oxide and propylene oxide gases as the sterilant. The sterilization process chamber vacuum pump emissions are vented to the DeOxx Scrubber for Willowbrook I and to the AAT Scrubber for Willowbrook II. The aeration rooms are vented to the AAT Scrubber for Willowbrook I and II. Back vents are uncontrolled.

Emission and Operating Parameter Limitations Specified in Relevant Standards:

Control	Control Parameter	Limitations/Standards	Deviations
Device:	7	i i i i	
DeOxx	Scrubber Glycol	Record Weekly, must be less than 5,200	<u>None</u>
Scrubber WB I	Solution Liquor Level	gallons.	
AAT Scrubber	Scrubber Glycol	Record Weekly, must be less than or equal to	None
<u>WB I</u>	Solution Liquor Level	<u>160"</u>	· ·······
AAT Dry Bed	Dry Bed Emission	Record Weekly, must be less than 1 ppm	None
Analysis WB I	Outlet Concentration	<u> </u>	
AAT Scrubber	Scrubber Glycol	Record Weekly, must be less than 202".	None
WB II	Solution Liquor Level		
AAT Dry Bed	Dry Bed Emission	Record Weekly, must be less than 1 ppm for	None
Analysis WB II	Outlet Concentration	Aeration and 60 ppm for Vacuum Pump	
		Discharge	

Monitoring Equipment Manufacturers and Model Numbers:

N/A. There is no CMS monitoring equipment.

The date of the latest CMS certification or audit:

N/A. There is no CMS monitoring equipment.

The Total Operating Time of the Affected Source During the Reporting Period:

Willowbrook I Deoxx and AAT Scrubber

Total operating time = 4,350 hours and 42 minutes

- Two planned outages totaling 15 hours and 07 minutes.
- Four outages totaling 2 hours and 11 minutes.

Willowbrook II AAT Scrubber

Total operating time = 4,299 hours and 24 minutes

- Two planned outages totaling 26 hours and 50 minutes.
- Ten outages totaling 41 hours and 46 minutes.

Emission Data Summary: There were no excess

Control	Total Duration of Excess Emissions/quantity released	Excess Emission Duration by Cause (hours)					
Unit		Startup/Shutdown	Control Equipment Problems	Process Problems	Other Know Causes	Unknown Causes	
DeOxx Scrubber WB I	None	N/A	N/A	N/A	N/A	N/A	
AAT Scrubber WB I	None	N/A	N/A	N/A	N/A	N/A	
AAT Scrubber II	None	N/A	N/A	N/A	N/A	N/A	

CMS Performance Summary:

N/A

Description of Changes in CMS, Process or Controls since Last Reporting Period:

N/A

Condition 8.6.1 requires:

A report summarizing required monitoring as specified in the conditions of this permit shall be submitted to the Air Compliance Section of the Illinois EPA every six months as follows, unless more frequent submittal of such reports is required in Sections 5 or 7 of this permit:

Monitoring Period

Report Due Date

January – June July – December August 1 February 1

All instances of deviations from permit requirements must be clearly identified in such reports. All such reports shall be certified in accordance with condition 9.9.

Sterigenics U.S. LLC has reviewed all applicable provisions of the operating permit. All liquid levels in the scrubbers are being monitored weekly and were within the levels established during the compliance test. U.S. EPA Region 5 approved monitoring requirements for the AAT Dry Bed Adsorbent System on December 19, 2002. There have not been any deviations from current applicable limits or standards. There also have not been any monitoring malfunctions during the reporting period from 01 January 2016 through 30 June 2016.

Responsible Official Certification

Based on the information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Kathleen Hoffman

kwagner@sterigenics.com.

Sr. Vice President EH&S

If you have any questions about this report, please contact Kevin Wagner at (630) 928-1771 or

Data

28-Jul-2016

Kind Regards,

Kevin Wagner

Director, Environmental Health & Safety

Pc: Illinois Environmental Protection Agency

Division of Air Pollution Control

9511 West Harrison

Des Plaines, Illinois 60016

Air & Radiation Division 77 West Jackson Boulevard Chicago, Illinois 60604

USEPA (AR-17J)

Illinois Environmental Protection Agency

Division of Air Pollution Control

Permit Section

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Sterigenics Management:

Mark Metzger – General Manager–Willowbrook, IL Kathleen Hoffman – Senior Vice-President, EHS Juan Segovia- Vice-President of Operations